<table>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Chair</th>
<th>Speaker(s)</th>
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<tr>
<td>09:00 - 09:15</td>
<td>D1W: Welcome Address</td>
<td>BIBA Auditorium</td>
<td>Klaus-Dieter Thoben</td>
<td>Klaus-Dieter Thoben, Dean of the Department of Production Engineering,</td>
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<td>Managing Director of BIBA and Spokesman of LogDynamics</td>
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<tr>
<td>09:15 - 09:45</td>
<td>D1P: Introduction and Program</td>
<td>BIBA Auditorium</td>
<td>Michael Freitag</td>
<td>Michael Freitag, Conference Chair and Managing Director of BIBA</td>
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<tr>
<td>09:45 - 10:30</td>
<td>D1K1: Keynote by Elen Twrdy</td>
<td>BIBA Auditorium</td>
<td>Hans-Dietrich Haasis</td>
<td>Elen Twrdy, University of Ljubljana: Selected Trends and Challenges in Maritime Logistics</td>
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<tr>
<td>10:30 - 11:00</td>
<td>Coffee Break</td>
<td>BIBA Hall</td>
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<td>11:00 - 12:30</td>
<td>D1S1T1: Supply Chain Management and Coordination I</td>
<td>BIBA Auditorium</td>
<td>Yilmaz Uygun</td>
<td>Melanie Zahner, Julia Arlinghaus, Manuel Zimmermann: The Influence of Cognitive Biases on Supply Chain Risk Management in the Context of Digitalization Projects</td>
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<td>Nadège Ingrid Kamgang Gpuanlong, Adama Bidiso: Flow management tools and techniques for logistics performance: An application to the logistics service sector in Cameroon</td>
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<td>Rami Alkhubady, Xavier Brusset, Pierre Feniex: Blockchain and Risk in Supply Chain Management</td>
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<td>12:30 - 14:00</td>
<td>Lunch Break</td>
<td>Mensa</td>
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<td>14:00 - 15:30</td>
<td>D1S1T2: Mathematical Optimization for Planning and Scheduling</td>
<td>BIBA Conference Room</td>
<td>Hans-Jörg Kreowski</td>
<td>Felix Blank: A hypercube queuing model approach for the location optimization problem of emergency vehicles for large-scale study areas</td>
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<td>Mykhaylo Postan, Sergey Dashkovskiy, Kateryna Dashkovskaya: Dynamic Optimization Model for Planning of Multi-Echelon Logistic System Activity</td>
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<td>Hanifeh Dastyar, Jürgen Pannek: Simulation-based sensitivity analysis of dynamic contract extension elements in supplier development</td>
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<td>15:30 - 16:00</td>
<td>Coffee Break</td>
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<tr>
<td>16:00 - 17:30</td>
<td>D1S2T1: Supply Chain Management and Coordination II</td>
<td>BIBA Auditorium</td>
<td>Aseem Kinra</td>
<td>Haniyeh Dastyar, Ali Mohammadi, Moslem Ali Mohamadilou: Prioritizing Supply Chain Agility Factors Using Fuzzy Analytic Network Process (FANP)</td>
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<td>Ayesha Khan, Sayed Mehdi Shah, Hans-Dietrich Haasis, Michael Freitag: Influence of Supply Chain Management &amp; Logistics in the Wake of CPEC on Domestic Industry in Pakistan</td>
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<td>Hawa Hishamuddin, Mohd Aziz, Abdul Aziz, Noraida Azzura Md Darom, Mohd Nazam</td>
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<td>Abd Rahman, Nizamiyari Sichai: A Disruption Management Model for a Production-Inventory System Considering Green Logistics</td>
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<tr>
<td>17:30 - 19:00</td>
<td>Get Together</td>
<td>BIBA Hall</td>
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</table>
D2K1: Keynote by Johannes Fottner  
Location: BIBA Auditorium  
Chair: Michael Freitag  
Johannes Fottner, Technical University of Munich: Autonomous systems in intralogistics - State of the art and future research challenges

D2K2: Keynote by Jakub Piotrowski  
Location: BIBA Auditorium  
Chair: Michael Freitag  
Jakub Piotrowski, BLG LOGISTICS GROUP AG & Co. KG: An agile approach to deal with innovations in complex operations of a logistics service provider

Coffee Break / Location: BIBA Hall

D2S1T1: Maritime Logistics I  
Location: BIBA Auditorium  
Chair: Hans-Dietrich Haasis  
Sarah Pfsrer, Lisa-Maria Putz, Eva Jung: Recommendations for Human Resources Development in Danube Inland Ports  
Alberto De Marco, Hussein Fakhry, Marco Postorino, Zakaria Mammar, Hakim Hacid: System Dynamics Modeling of Logistics Hub Capacity: the Dubai Logistics Corridor Case Study  
Thimo Schindler, Christoph Greulich, Dennis Bode, Arne Schuldt, André Decker: Towards Intelligent Waterway Lock Control for Port Facility Optimisation

D2S2T1: Maritime Logistics II  
Location: BIBA Auditorium  
Chair: Frank Arendt  
Janna Franzkeit, Hannah Pache, Carlos Jahn: Waiting Ships: An AIS Case Study  
Paul Gerken, Herbert Kotzb, Hans G. Ursel1d: Resource Sharing as a management concept for digital logistics terminals  
Patrick Specht, Herbert Kotzb: Coordinating the seaport-hinterland interface: Theoretical and methodological insights from scientific literature

D2S3T1: Maritime Logistics III  
Location: BIBA Auditorium  
Chair: Herbert Kotzb  
Antonio G. N. Novaes, Orlando Fontes Lima Jr, José Eduardo Souza De Cursu, Jamie Andres Cardona Arias, José Benedicto Silva Santos Junior: Predictive Manufacturing Tardiness Inference in OEM Milk-Run Operations  
Bernd Nieberding, Johannes Kretzschmar: Implementation of a Total Cost of Ownership Model for Last-Mile Logistics as a Constraint Satisfaction Problem  
Silvio Luis Alvim, Jose Benedicto Silva Santos Junior, Carlos Manuel Taboada Rodriguez: A theoretical framework assessment proposal for a complexity degree measurement on a supply chain network

11:00 - 12:30

D2S1T2: Collaborative Planning and Control I  
Location: BIBA Conference Room  
Chair: Aseem Kinra  
Herbert Kotzb, Ija Bäu1mier, Paul Gerken: Supply Chain Integration: A Bibliometric Analysis  
Juni Reich, Tina Wakolbinger, Aseem Kinra: A supply chain decision support model for global business process outsourcing in services industries  
Panschalee Praneetpholkang, Van Nam Huynh: Shelter Site Selection and Allocation Model for Efficient Response to Humanitarian Relief Logistics

D2S2T2: Collaborative Planning and Control II  
Location: BIBA Conference Room  
Chair: Herbert Kotzb  
Artur Schütz, Maik Groneberg: Sensor Simulation and Evaluation for Infrastructure-Free Mobile Sensor Carrier Platforms  
Marvin Kastner, Ann-Kathrin Lange, Carlos Jahn: Expansion Planning at Container Terminals  
Hani Shahrmandi-Moghadam, Omid Samani, Jörn Schöneberger: A Hybrid Robust-Stochastic Optimization Approach for The Noise Pollution Routing Problem with a Heterogeneous Vehicle Fleet

D2S3T2: Multi-modal Transport  
Location: BIBA Conference Room  
Chair: Herbert Kotzb  
Artur Schütz, Maik Groneberg: Sensor Simulation and Evaluation for Infrastructure-Free Mobile Sensor Carrier Platforms  
Marvin Kastner, Ann-Kathrin Lange, Carlos Jahn: Expansion Planning at Container Terminals  
Hani Shahrmandi-Moghadam, Omid Samani, Jörn Schöneberger: A Hybrid Robust-Stochastic Optimization Approach for The Noise Pollution Routing Problem with a Heterogeneous Vehicle Fleet

12:30 - 14:00

Lunch Break / Location: Mensa

D2S1T3: Collaborative Planning and Control III  
Location: BIBA Auditorium  
Chair: Michael Freitag  
Antonio G. N. Novaes, Orlando Fontes Lima Jr, José Eduardo Souza De Cursu, Jamie Andres Cardona Arias, José Benedicto Silva Santos Junior: Predictive Manufacturing Tardiness Inference in OEM Milk-Run Operations  
Bernd Nieberding, Johannes Kretzschmar: Implementation of a Total Cost of Ownership Model for Last-Mile Logistics as a Constraint Satisfaction Problem  
Silvio Luis Alvim, Jose Benedicto Silva Santos Junior, Carlos Manuel Taboada Rodriguez: A theoretical framework assessment proposal for a complexity degree measurement on a supply chain network

D2S2T3: Collaborative Planning and Control IV  
Location: BIBA Auditorium  
Chair: Herbert Kotzb  
Janna Franzkeit, Hannah Pache, Carlos Jahn: Waiting Ships: An AIS Case Study  
Paul Gerken, Herbert Kotzb, Hans G. Ursel1d: Resource Sharing as a management concept for digital logistics terminals  
Patrick Specht, Herbert Kotzb: Coordinating the seaport-hinterland interface: Theoretical and methodological insights from scientific literature

D2S3T3: Smart Intra-logistics Systems  
Location: BIBA Auditorium  
Chair: Herbert Kotzb  
Artur Schütz, Maik Groneberg: Sensor Simulation and Evaluation for Infrastructure-Free Mobile Sensor Carrier Platforms  
Marvin Kastner, Ann-Kathrin Lange, Carlos Jahn: Expansion Planning at Container Terminals  
Hani Shahrmandi-Moghadam, Omid Samani, Jörn Schöneberger: A Hybrid Robust-Stochastic Optimization Approach for The Noise Pollution Routing Problem with a Heterogeneous Vehicle Fleet

15:30 - 16:00

Coffee Break / Location: BIBA Hall

D2S1T4: Maritime Logistics IV  
Location: BIBA Auditorium  
Chair: Burkhard Lemper  
Janna Franzkeit, Hannah Pache, Carlos Jahn: Waiting Ships: An AIS Case Study  
Paul Gerken, Herbert Kotzb, Hans G. Ursel1d: Resource Sharing as a management concept for digital logistics terminals  
Patrick Specht, Herbert Kotzb: Coordinating the seaport-hinterland interface: Theoretical and methodological insights from scientific literature

D2S2T4: Collaborative Planning and Control V  
Location: BIBA Conference Room  
Chair: Herbert Kotzb  
Artur Schütz, Maik Groneberg: Sensor Simulation and Evaluation for Infrastructure-Free Mobile Sensor Carrier Platforms  
Marvin Kastner, Ann-Kathrin Lange, Carlos Jahn: Expansion Planning at Container Terminals  
Hani Shahrmandi-Moghadam, Omid Samani, Jörn Schöneberger: A Hybrid Robust-Stochastic Optimization Approach for The Noise Pollution Routing Problem with a Heterogeneous Vehicle Fleet

16:00 - 17:30

D2S1T5: Maritime Logistics V  
Location: BIBA Auditorium  
Chair: Burkhard Lemper  
Janna Franzkeit, Hannah Pache, Carlos Jahn: Waiting Ships: An AIS Case Study  
Paul Gerken, Herbert Kotzb, Hans G. Ursel1d: Resource Sharing as a management concept for digital logistics terminals  
Patrick Specht, Herbert Kotzb: Coordinating the seaport-hinterland interface: Theoretical and methodological insights from scientific literature

18:30 - 22:00

Conference Dinner / Location: Union Brauerei / Bus Shuttle: 17:45 and 18:00
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<td>9:00 - 9:45</td>
<td><strong>D3K1: Keynote by Alexander Hübner</strong></td>
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<td>Herbert Kotzab</td>
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<td></td>
<td>Alexander Hübner, Technical University of Munich: Operations in Omni-Channel Retailing</td>
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<td>9:45 - 10:00</td>
<td><strong>Best Paper Award</strong></td>
<td>BIBA Auditorium</td>
<td>Herbert Kotzab</td>
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<td>10:00 - 10:30</td>
<td><strong>Coffee Break</strong></td>
<td>BIBA Hall</td>
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<td>10:30 - 12:00</td>
<td><strong>D3S1T1: Intelligent Production and Logistics Systems I</strong></td>
<td>BIBA Auditorium</td>
<td>Hendro Wicaksono</td>
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<td>Ícaro Romolo Sousa Agostino, Charles Ristow, Enzo Morosini Frazzon, Carlos Manuel Taboada Rodriguez: Perspectives on the Application of Internet of Things along Logistics Systems</td>
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<td>Julia Felß, Henning Kontry: AIBA 4.0: Architectures of Industry 4.0 Demonstrated Through Application Scenarios in Business Game</td>
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<td>Satie L. Takeda-Berger, Enzo Morosini Frazzon, Sike Broda, Michael Freitag: Machine learning in production scheduling: an overview of the academic literature</td>
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<td>12:00 - 13:30</td>
<td><strong>Lunch Break</strong></td>
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<td>13:30 - 15:00</td>
<td><strong>D3S2T1: Intelligent Production and Logistics Systems II</strong></td>
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<td>Nicole Megow</td>
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<td>Uwe Allmann, Udo Buscher, Sven Engesser, Jörn Schöneberger, Leon Urbas: Software-Defined Mobile Supply Chains</td>
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<td>Andreas Neubert: Clustering for Monitoring Logistic Processes in General Cargo Warehouses</td>
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<td>Marius Veigt, Marco Cen, Elisabeth Hardi, Walter Lang, Michael Freitag: Using RFID to monitor the curing of aramid fiber reinforced polymers</td>
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<td>15:00 - 15:30</td>
<td><strong>D3S3T1: Closing and Farewell</strong></td>
<td>BIBA Auditorium</td>
<td>Michael Freitag</td>
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**D3S1T2: Human/Machine Interaction I**
Location: BIBA Conference Room
Chair: Klaus-Dieter Thoben
- Matthias Klumpp, Vera Hagemann, Martina Schaper: Assessment of Cognitive Strain in Digital Logistics Work: Background, Analysis and Mitigation
- Kavitha Balachandra, H. Niles Perera, Amila I.G. Thibotuwawa: Human factor in forecasting and behavioral inventory decisions: a system dynamics perspective

**D3S1T3: Guided Tour Artificial Intelligence Lab**
Location: TAB Building
Session Chair: Matthias Burwinkel

**D3S2T1: Human/Machine Interaction II**
Location: BIBA Conference Room
Chair: Robert Porzel
- Christoph Petzoldt, Dennis Keiser, Thies Beinke, Michael Freitag: Requirements for an Incentive-based Assistance System for Manual Assembly
- Moritz Quandt, Hendrik Stern, Supara Grudpan, Thies Beinke, Michael Freitag: Evaluation of Human-Computer Interaction Design in Production and Logistics by Using Experimental Investigations

**D3S2T2: Guided Tour LogDynamics Lab II**
Location: BIBA Hall
Session Chair: Matthias Burwinkel